Journal of Educational Psychology

WAYNE H. HOLTZMAN, EDITOR
University of Texas

Advisory Editors

ROBERT H. BEEZER
United States Office of Education

DANIEL E. BERLYNE
University of Toronto

C. VICTOR BUNDERSON
University of Texas

LEE J. CRONBACH
Stanford University

NATHANIEL GAGE
Stanford University

ROBERT M. GAGNÉ
Florida State University

ROBERT GLASER
University of Pittsburgh

ERNEST R. HILGARD
Stanford University

PHILIP W. JACKSON
University of Chicago

ARTHUR R. JENSEN
University of California, Berkeley

HERBERT J. KLAUSMEIER
University of Wisconsin

NATHAN KOGAN
Educational Testing Service, Princeton

ARTHUR A. LUMSDAINE
University of Washington

CARSON MCGUIRE
University of Texas

PAUL MUSSEN
University of California, Berkeley

C. ROBERT PACE
University of California, Los Angeles

DAVID G. RYANS
University of Hawaii

ROBERT L. THORNDIKE
Teachers College, Columbia University

VOLUME 60, 1969

HELEN ORR
Managing Editor

BARBARA VIRGO
Technical Editor

HENRY S. SALMON
Advertising and Business Manager

ROBERT D. GORMAN
Subscription Manager

PUBLISHED BIMONTHLY BY:

THE AMERICAN PSYCHOLOGICAL ASSOCIATION, INC.
1200 Seventeenth Street, N. W.
WASHINGTON, D. C. 20036

Copyright, 1968, by the American Psychological Association, Inc.

CONTENTS OF VOLUME 60

ALKER, HENRY A., CARLSON, JULIA A., AND HERMANN, MARGARET G. Multiple-Choice Questions and Student Characteristics 231

AUSUBEL, DAVID P., STAGER, MARY, AND GAITE, A. J. H. Proactive Effects in Meaningful Verbal Learning and Retention 59

BAIRD, LEONARD L. Big School, Small School: A Critical Examination of the Hypothesis 253

BAIRD LEONARD L. A Study of the Role Relations of Graduate Students 15

BONSALL, CHERYL, AND DORNBUSH, RHEA L. Visual Perception and Reading Ability 294

BRADLEY, RICHARD W., AND SANBORN, MARSHALL P. Ordinal Position of High School Students Identified by Their Teachers as Superior 41

BUNDERSON, C. VICTOR. See DUNHAM, J. L.

CAMPAGNA, DENNIS. See CHICKERING, ARTHUR W.

CARLSON, JULIA A. See ALKER, HENRY A.

CARLSON, JULIA. See KOGAN, NATHAN.

CHICKERING, ARTHUR W., MCDOWELL, JAMES, AND CAMPAGNA, DENNIS. Institutional Differences and Student Development 315

CLAIBORN, WILLIAM L. Expectancy Effects in the Classroom: A Failure to Replicate 377

CORSINI, DAVID A. See SIEGEL, ALEXANDER W.

DACHLER, HANS PETER. See HUMPHREYS, LLOYD G.

DAVIDSON, ROBERT E., AND DOLLINGER, LAUREL E. Syntactic Facilitation of Paired-Associate Learning: Deep Structure Variations 434

DENO, STANLEY L. See JENKINS, JOSEPH R.

DICKINSON, THOMAS C. See JACOBSON, LEONARD I.

DOLLINGER, LAUREL E. See DAVIDSON, ROBERT E.

DORNBUSH, RHEA L. See BONSALL, CHERYL.

DUNHAM, J. L., AND BUNDERSON, C. VICTOR. Effect of Decision-Rule Instruction upon the Relationship of Cognitive Abilities to Performance in Multiple-Category Concept Problems 121

EDWARDS, JOSEPH C. Effect of Instruction and Concomitant Variables on Multiple-Categorization Ability 138

ELLISON, GAYLORD D. See FLEISHMAN, EDWIN A.

EUSTACE, BARBARA W. Learning a Complex Concept at Differing Hierarchical Levels 449

EVANS, FRANKLIN R. See KLEIN, STEPHEN P.

FESHBACH, NORMA D. Student Teacher Preferences for Elementary School Pupils Varying in Personality Characteristics 126

FISCHHOF, VALERIE. See WHIMBEY, ARTHUR.

FLEISHMAN, EDWIN A., AND ELLISON, GAYLORD D. Prediction of Transfer and Other Learning Phenomena from Ability and Personal Measures 300

FLEISHMAN, JOYCE M. See JACOBSON, LEONARD I.

FOLEY, JEANNE M. See JOHNSON, HOMER H.

FRASE, LAWRENCE T. Cybernetic Control of Memory while Reading Connected Discourse 49

FRASE, LAWRENCE T. Paragraph Organization of Written Materials: The Influence of Conceptional Clustering upon the Level and Organization of Recall 394

FRASE, LAWRENCE T. See Monograph listing.

FRAUNFELKER, BARBARA S., AND SPEAR, NORMAN E. Phonetic Compatibility and Verbal Learning 355

FREDERIKSEN, NORMAN. See KLEIN, STEPHEN P.

FRIEDMAN, HERBERT L. See ORR, DAVID B.

GAGNÉ, ROBERT M. Context, Isolation, and Interference Effects on the Retention of Fact 408

GAITE, A. J. H. See AUSUBEL, DAVID P.

GENTILE, PATRICIA K. See GENTILE, J. RONALD

GENTILE, J. RONALD, KESSLER, DELORES K., AND GENTILE, PATRICIA K. Process of Solving Analogy Items 494
GILMAN, DAVID ALAN. Comparison of Several Feedback Methods for Correcting Errors by Computer-Assisted Instruction 503
GLASER, ROBERT. See Monograph listing.
GLASS, GENE V. Note on Jensen and Rohwer's "Mental Retardation, Mental Age, and Learning Rate" 415
GLOCK, MARVIN D. See RIPPLE, RICHARD E.
GRAAE, CYNTHIA N. See ORR, DAVID B.
HALL, JAMES W. Effects of Three Variations in Learning Instructions on Children's Word-Recognition Performance 461
HALL, JAMES W. Errors in Word Recognition and Discrimination by Children of Two Age Levels 144
HANSEN, DUNCAN N. See O'NEIL, HAROLD F., JR.
HARAGUCHI, ROSEMARY STONE. See JACOBSON, LEONARD I.
HERMANN, MARGARET G. See ALKER, HENRY A.
HUMPHREYS, LLOYD G., AND DACHLER, HANS PETER. Jensen's Theory of Intelligence 419
HUMPHREYS, LLOYD G., AND DACHLER, HANS PETER. Jensen's Theory of Intelligence: A Rebuttal 432
JACKSON, PHILIP W., SILBERMAN, MELVIN L., AND WOLFSON, BERNICE J. Signs of Personal Involvement in Teachers' Descriptions of Their Students 22
JACOBSON, LEONARD I., DICKINSON, THOMAS C., FLEISHMAN, JOYCE M., AND HARAGUCHI, ROSEMARY STONE. Relationship of Intelligence and Mediating Processes to Concept Learning 109
JENKINS, JOSEPH R., AND DENO, STANLEY L. Influence of Student Behavior on Teacher's Self-Evaluation 439
JENSEN, ARTHUR R. Jensen's Theory of Intelligence: A Reply 427
JENSEN, ARTHUR R. See ROHWER, WILLIAM D.
JOHNSON, DAVID W. See LITCHER, JOHN H.
JOHNSON, HOMER H., AND FOLEY, JEANNE M. Some Effects of Placebo and Experiment Conditions in Research on Methods of Teaching 6
JOHNSON, PAUL E. On the Communication of Concepts in Science 32
JUDD, WILSON A. See Monograph listing.
KESSLER, DELORES K. See GENTILE, J. RONALD.
KHAN, S. B. Affective Correlates of Academic Achievement 216
KING, F. J., ROBERTS, DENNIS, AND KROPP, RUSSEL P. Relationship between Ability Measures and Achievement under Four Methods of Teaching Elementary Set Concept 244
KLEIN, STEPHEN P., FREDERIKSEN, NORMAN, AND EVANS, FRANKLIN R. Anxiety and Learning to Formulate Hypotheses 465
KODMAN, FRANK, JR. See WHIPPLE, CLIFFORD I.
KOGAN, NATHAN, AND CARLSON, JULIA. Difficulty of Problems Attempted under Conditions of Competition and Group Consensus 158
KORNREICH, L. BERELL. Discovery versus Programmed Instruction in Teaching a Strategy for Solving Concept-Identification Problems 384
KRESS, GERARD C., JR. A Study of the Effects of Administering Programmed Instruction to Interacting Groups 333
KROPP, RUSSELL P. See KING, F. J.
LAMBERT, W. E., AND MACNAMARA, J. Some Cognitive Consequences of Following a First-Grade Curriculum in a Second Language 86
LAMBERT, WALLACE E. See SAMUELS, MARILYN.
LAMBERT, WALLACE E. See YENI-KOMSHIAN, GRACE H.
LAUGHLIN, PATRICK R., MOSS, IRENE L., AND MILLER, SUSAN M. Information-Processing in Children as a Function of Adult Model, Stimulus Display, School Grade, and Sex 188
LAUGHLIN, PATRICK R. Selection versus Reception Concept-Attainment Paradigms as a Function of Memory, Concept Rule, and Concept Universe 267
LAYMAN, JANE A. See TAGATZ, GLENN E.

LEMKE, ELMER A., RANDLE, KENNETH, AND ROBERTSHAW, C. STUART. Effects of Degree of Initial Acquisition, Group Size, and General Mental Ability on Concept Learning and Transfer 75
LITCHER, JOHN H., AND JOHNSON, DAVID W. Changes in Attitudes toward Negroes of White Elementary School Students after Use of Multiethnic Readers 148
LOTT, ALBERT J., LOTT, BERNICE E., AND MATTHEWS, GAIL M. Interpersonal Attraction among Children as a Function of Vicarious Reward 274
LOTT, BERNICE E. See LOTT, ALBERT J.
MACNAMARA, J. See LAMBERT, W. E.
MARSHALL, HERMINE H. Learning as a Function of Task Interest, Reinforcement, and Social Class Variables 133
MARTIN, MARION. See ROSENTHAL, TED L.
MASLING, JOSEPH, AND STERN, GEORGE. Effect of the Observer in the Classroom .. 351
MATTHEWS, GAIL M. See LOTT, ALBERT J.
MCDOWELL, JAMES. See CHICKERING, ARTHUR W.
MCNEIL, KEITH A., AND PHILLIPS, BEEMAN N. Scholastic Nature of Responses to the Environment in Selected Subcultures 79
MENAKER, SHIRLEY L. See VELDMAN, DONALD J.
MILLER, SUSAN M. See LAUGHLIN, PATRICK R.
MILLMAN, JASON. See RIPPLE, RICHARD E.
MORE, ARTHUR J. Delay of Feedback and the Acquisition and Retention of Verbal Materials in the Classroom 339
MORRISON, EVELYN. Underachievement among Preadolescent Boys Considered in Relationship to Passive Aggression 168
MOSS, IRENE L. See LAUGHLIN, PATRICK R.
MOUW, JOHN T. Effect of Dogmatism on Levels of Cognitive Processes 365
O'NEIL, HAROLD F., JR., SPIELBERGER, CHARLES D., AND HANSEN, DUNCAN N. Effects of State Anxiety and Task Difficulty on Computer-Assisted Learning ... 343
ORR, DAVID B., FRIEDMAN, HERBERT L., AND GRAAE, CYNTHIA N. Self-Pacing Behavior in the Use of Time-Compressed Speech 28
PECK, ROBERT F. See VELDMAN, DONALD J.
PHILLIPS, BEEMAN N. See MCNEIL, KEITH A.
RANDLE, KENNETH. See LEMKE, ELMER A.
REES, RICHARD D. Dimensions of Students' Points of View in Rating College Teachers 476
REID, JACKSON B. See SUTTER, EMILY G.
REYNOLDS, ALLAN G. See SAMUELS, MARILYN.
RIPPLE, RICHARD E., MILLMAN, JASON, AND GLOCK, MARVIN D. Learner Characteristics and Instructional Mode: A Search for Disordinal Interactions 113
ROBERTS, DENNIS. See KING, F. J.
ROBERTSHAW, C. STUART. See LEMKE, ELMER A.
ROHWER, WILLIAM D., JR., AND JENSEN, ARTHUR R. A Reply to Glass 417
ROSENTHAL, TED L., UNDERWOOD, BILLIE, AND MARTIN, MARION. Assessing Classroom Incentive Practices 370
ROSS, DOROTHEA, AND ROSS, SHEILA. Leniency toward Cheating in Preschool Children 483
ROSS, SHEILA. See ROSS, DOROTHEA.
RYAN, STUART F. See WHIMBEY, ARTHUR E.
SAMUELS, MARILYN, REYNOLDS, ALLAN G., AND LAMBERT, WALLACE. Communicational Efficiency of Children Schooled in a Foreign Language 389
SAMUELS, S. JAY. Effect of Simultaneous versus Successive Discrimination Training on Paired-Associate Learning 46
SAMUELS, S. JAY. Effect of Word Associations on the Recognition of Flashed Words . 97
SAMUELS, S. JAY, AND WITTROCK, MERLIN C. Word-Association Strength and Learning to Read 248
SANBORN, MARSHALL P. See BRADLEY, RICHARD W.
SASSENRATH, JULIUS M., AND YONGE, GEORGE D. Effects of Delayed Information Feedback and Feedback Cues in Learning on Delayed Retention 174
SHEARER, JAMES W. See TALLMADGE, G. KASTEN.

SIEGEL, ALEXANDER W., AND CORSINI, DAVID A. Attentional Differences in Children's Incidental Learning 65
SIEGEL, ALEXANDER. See STEVENSON, HAROLD W.
SILBERMAN, MELVIN L. Behavioral Expression of Teachers' Attitudes toward Elementary School Students 402
SILBERMAN, MELVIN L. See JACKSON, PHILIP W.
SILIKOWITZ, RON. See WHIMBEY, ARTHUR.
SPEAR, NORMAN E. See FRAUNFELKER, BARBARA S.
SPIELBERGER, CHARLES D. See O'NEIL, HAROLD F., JR.
STAGER, MARY. See AUSUBEL, DAVID P.
STERN, GEORGE. See MASLING, JOSEPH.
STEVENSON, HAROLD W., AND SIEGEL, ALEXANDER. Effects of Instructions and Age on Retention of Filmed Content 71
STURGES, PERSIS T. Verbal Retention as a Function of the Informativeness and Delay of Informative Feedback 11
SUTTER, EMILY G., AND REID, JACKSON B. Learner Variables and Interpersonal Conditions in Computer-Assisted Instruction 153
TAGATZ, GLENN E., WALSH, MARY R., AND LAYMAN, JANE A. Learning Set and Strategy Interaction in Concept Learning 488
TALLMADGE, G. KASTEN, AND SHEARER, JAMES W. Relationships among Learning Styles, Instructional Methods, and the Nature of Learning Experiences 222
THISTLETHWAITE, DONALD L. Some Ecological Effects of Entering a Field of Study . 284
TOBIAS, SIGMUND. Effect of Creativity, Response Mode, and Subject Matter Familiarity on Achievement from Programmed Instruction 453
UNDERWOOD, BILLIE. See ROSENTHAL, TED L.
VELDMAN, DONALD J., AND MENAKER, SHIRLEY L. Directed Imagination Method for Projective Assessment of Teacher Candidates 178
VELDMAN, DONALD J., AND PECK, ROBERT F. Influences on Pupil Evaluations of Student Teachers 103
WALBERG, HERBERT J. Social Environment as a Mediator of Classroom Learning ... 443
WALSH, MARY R. See TAGATZ, GLENN E.
WEENER, PAUL D. Social Dialect Differences and the Recall of Verbal Messages .. 194
WHIMBEY, ARTHUR, FISCHHOF, VALERIE, AND SILIKOWITZ, R. N. Memory Span: A Forgotten Capacity 56
WHIMBEY, ARTHUR E., AND RYAN, STUART F. Role of Short-Term Memory and Training in Solving Reasoning Problems Mentally 361
WHIPPLE, CLIFFORD I., AND KODMAN, FRANK, JR. A Study of Discrimination and Perceptual Learning with Retarded Readers 1
WICKER, ALLAN. Cognitive Complexity, School Size, and Participation in School Behavior Settings: A Test of the Frequency of Interaction Hypothesis 200
WITTROCK, MERLIN C. See SAMUELS, S. JAY.
WOLFF, JOSEPH L. Effect of Subject-Determined Verbalization on Discrimination Learning in Preschoolers 261
WOLFSON, BERNICE J. See JACKSON, PHILIP W.
YEE, ALBERT H. Do Cooperating Teachers Influence the Attitudes of Student Teachers? 327
YENI-KOMSHIAN, GRACE H., AND LAMBERT, WALLACE E. Concurrent and Consecutive Modes of Learning Two Vocabularies 204
YONGE, GEORGE D. See SASSENRATH, JULIUS M.

Monographs

FRASE, LAWRENCE T. Structural Analysis of the Knowledge that Results from Thinking about Text. *Journal of Educational Psychology Monograph*, Part 2, December 1969. Pp. 1–16.
JUDD, WILSON A., AND GLASER, ROBERT. Response Latency as a Function of Training Method, Information Level, Acquisition, and Overlearning. *Journal of Educational Psychology Monograph*, Part 2, August 1969. Pp. 1–30.